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(54) PRODUCTION OF QUATERNARY AMMONIUM ORGANIC ACID SALT FOR ELECTROLYTE

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently obtain the subject compound suitable for electrolytes in high purity and yield by reaction of a tertiary amine with a carbonic diester to produce the corresponding quaternary ammonium carbonate which is then treated under specified conditions.

SOLUTION: A tertiary amine such as trimethylamine is reacted with a carbonic diester such as dimethyl carbonate to produce the corresponding quaternary ammonium carbonate which is, in turn, mixed with an organic acid such as acetic acid to expel the carbon dioxide generated out of the system and subjected to anion exchange into the corresponding organic acid, thus obtaining the objective quaternary ammonium organic acid salt for electrolytes.

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